OCTAVE

JUBILEE PREAMP SE

Owner's Manual

English

FOREWORD

I wish to personally thank you for choosing OCTAVE products and congratulate you on your purchase of your new

JUBILEE PREAMP SE

Here at our head office in Karlsbad, right on the edge of the Black Forest, we have been designing and building high quality, long-lasting hi-fi equipment for over 35 years that will – quite literally – provide you with hours of musical pleasure for many years to come.

Today's loudspeakers and high-resolution source equipment continue to be very demanding of amplifiers. As a result, achieving improved amplifier sound quality requires greater levels of technical innovation than ever before.

OCTAVE specializes in the ongoing development of upgradeable circuit designs and has earned a reputation over recent years as a world leader in the field of high-end tube amplifier design. Thanks to our years of experience and our in-depth understanding of amplifier technologies and their side effects, OCTAVE is able to achieve a musical quality and degree of reliability that seemed impossible or unaffordable only a few years ago.
I trust that you will enjoy many hours of wonderful music with your OCTAVE Amplifier.

Andreas Hofmann
Chief Designer and Owner of OCTAVE Audio

CONTENTS

1. INTRODUCTION

1.1. WHAT MAKES OCTAVE AMPLIFIERS SPECIAL?

Sound

The design goal of OCTAVE amplifiers is honest, natural sound reproduction. The sound characteristics of an amplifier are derived from the sum of all its parts. Tubes themselves do not only guarantee high quality sound.

This means that a high degree of technical skill must be applied to optimizing every detail in order to design a reliable amplifier that will maintain its characteristics over time and that will convince the critical listener over the long term that its reproduction of music is both honest and natural

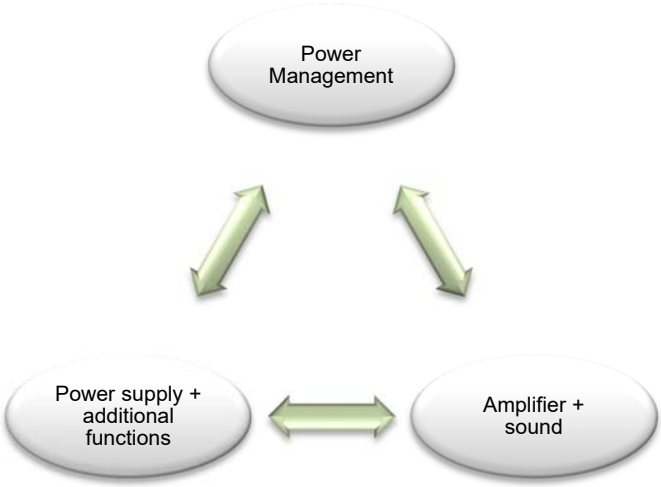
Amplifier design

The frequency range and output resistance limitations of classic tube designs are evident as soon as you connect the amplifiers. These designs often only perform to their full potential when they are used with special power Amplifiers. OCTAVE amplification and power supply technology has largely overcome these well-known problems. Thanks to their unique output stage design, they will maintain their optimum sound quality with virtually any amplifier.

Control + monitoring

OCTAVE employs the latest electronic circuit designs to create the best possible operating conditions for the tubes, and thus for the amplifier itself.

OCTAVE tube technology



OCTAVE amplifiers are equipped with a proprietary control and monitoring system we call **Power Management**. This is an “electronic brain” within the amp that regulates and controls all of the amplifier's functions. It includes soft start electronics that gently increase the heater and supply voltage to minimize component wear. In the event of a problem, the Power Management’s **protection system** disconnects the unit from the power supply. Power Management helps us to achieve a completely consistent sound while at the same time ensuring the total reliability of our products.

Hand built

OCTAVE amplifiers are hand built and individually 100% tested. They are designed and developed by Andreas Hofmann. The company has its own winding department, in which all transformers are especially custom-wound for each amplifier.

Made in Germany

OCTAVE amplifiers are 100% built in Germany. Our employees are highly qualified and committed. We work closely with local mechanical suppliers. The hardware components are all manufactured on modern CNC machines. We use only the best, most durable electronic components. We can repair all Octave amplifiers, no matter how old they are.

1. INTRODUCTION

1.2 DESCRIPTION OF THE JUBILEE PREAMP SE

Circuit design

OCTAVE has designed its reference amplifier – the JUBILEE PREAMP SE – as a *two-stage hybrid amplifier*. Tube circuitry manages the high precision *balanced stage* and amplifies the signal. The *high output current* requirements are satisfied by an output impedance converter implemented with semiconductors. The unique combination of tubes and transistors allows the JUBILEE PREAMP SE to do without overall negative feedback and thus deliver the undeniable sonic benefits of a *zero feedback design.* However, any amplifier that dispenses with negative feedback also dispenses with the corrective mechanism provided by negative feedback circuitry. In the JUBILEE PREAMP SE, we solve this problem through the extremely high specification of the output stages and power supply section, creating virtually perfect conditions for achieving *perfectly accurate amplification* – without the need for corrective mechanisms.

Whether the source equipment is connected via the RCA / CINCH phono or XLR inputs, the Jubilee tube preamp always produces a *perfectly balanced output signal* and delivers an optimum sonic performance independent of the source type. The XLR inputs are fitted with input-transformers that have no sonic signature of their own. Because they introduce no noise or distortions, signal-transformers are the technology of choice for this application in professional studios. In addition, they also allow the function of a ground lift circuit, eliminating the risk of interference and hum, which is particularly critical when it comes to complex multi-amp combinations even if connected via balanced inputs.

The *low impedance output* is yet another feature designed to enhance the sound quality and versatility of the JUBILEE PREAMP SE Only a semiconductor-based output stage is able to cope with long cable runs and integrate perfectly with low impedance power amplifiers It would be impossible to implement such an uncritical output using tubes alone without sacrificing accuracy in the low bass and extreme high frequencies.

Outboard power supply

The outboard power supply, which was developed exclusively for the JUBILEE PREAMP SE, substantially enhances the sound quality of the preamp by separating the preamplifier from the mains (simulated battery operation). The *separate power supply* stops mains noise from entering the preamp's signal processing circuitry. It also provides highly accurate and stable electronic voltage regulation, which is one of the ways we ensure this product's consistent performance over time.

Power management system

The Jubilee's sophisticated power management system guarantees a long and reliable life and incorporates highly refined soft-start technologies that help the tubes achieve their theoretical maximum service life of up to 10,000 hours.

Build quality

The volume control with its precision ball bearings is centrally placed within a polished Labrador natural stone slab, flanked by two, three-centimeter thick, solid aluminum panels. The extremely stable, low resonance, all-aluminum casing eliminates any possibility of magnetic distortion. Before leaving the factory, each hand-built JUBILEE PREAMP SE is thoroughly inspected and subjected to a 48- hour endurance test

2. SAFETY INSTRUCTIONS

2.1. BEFORE YOU BEGIN

In case of emergency: disconnect the plug from the mains supply

Never use an amplifier that is damaged or faulty. Make sure it has been labeled as defective and that it cannot be used until it has been repaired by a qualified service engineer. Make sure that there is easy access to the IEC socket and power cable.

Do not open the case

There are dangerously high voltages and hot tubes inside this equipment. To avoid a burn or the risk of electric shock, never allow anyone except qualified personnel to open the case or remove the grill.

Service and maintenance

For reasons of safety, please ensure that servicing, repairs and other modifications to OCTAVE equipment are carried out only by a qualified technician. Defective fuses should also only be replaced by a qualified technician. Always replace fuses with ones of the same type and rating. If your amplifier requires servicing, please ship or take your equipment directly to OCTAVE or to one of our authorized service centers.

Symbols and terms used in this instructions

	Caution! Text passages marked with this symbol contain important information which must be observed if the amplifier is to operate safely and without problems.
	This information symbol marks text passages which provide supplementary notes and background information; they are intended to help the user understand how to get the best out of the amplifier

Before connecting

Make sure that the voltage of your amplifier matches your local mains voltage.

Grounding

This amplifier is a protection class 1 device, (except 100V versions for Japan) with an earth conductor. Therefore a three-pin power cable with a protective earth contact must be used (included in the scope of delivery).

2. SAFETY PRECAUTIONS

2.2. PLACEMENT

Location

- OCTAVE equipment is designed strictly for use in a dry domestic environment with a room temperature up to 25°C. Do not use it in open air or in damp environments!
- Never place plants or liquid-filled containers on your amplifier. Take care that objects do not fall or liquids are not spilled into the enclosure. Should this happen, disconnect the mains plug immediately and have your amplifier checked by a qualified service technician.
- Condensation may form if the amplifier is taken from a cold environment into a warm one. In this case, wait until the amplifier has reached room temperature and is dry before switching it on.
- Avoid installing the amplifier close to sources of heat, such as heaters, or anywhere that it may be in direct sunlight.
- Do not operate your OCTAVE amplifier near flammable materials, gases, or vapors. Avoid areas where there may be heavy accumulations of dust or where the amplifier may be subject to mechanical vibration.
- Place your OCTAVE amplifier on a stable, even surface.

Cover

Never operate the amplifier without the cover.

Ventilation

- Ensure sufficient air circulation around your amplifier. If you intend to install your equipment in a cupboard or a shelf unit, ensure that there is at least a 25 centimeter gap between the ventilation slots and the walls all around the amplifier.
- To prevent heat accumulation, the back of the cupboard should have ventilation holes.
- Do not rest the equipment on a soft surface such as carpet or foam sheeting.

2.3. Warranty

OCTAVE can only guarantee the safety, reliability and performance of this unit if modifications and repairs are carried out by specialized personnel and if the amplifier is operated in accordance with the instructions contained in this manual.

3. GETTING STARTED

3.1. UNPACK AND CHECK THE CONTENT

Scope of delivery	
-	Tube preamplifier JUBILEE PREAMP SE
-	External power supply
-	Power cord
-	Remote control for volume (not with stepped attenuator option)
-	Octave cleaning cloth and soft gloves
-	Owner's manual with certificate

3.2. CONNECTING THE AMPLIFIER

1. In your own interest, please observe the Safety Precautions in Section 2.1 and the Positioning Advice in Section 2.2.

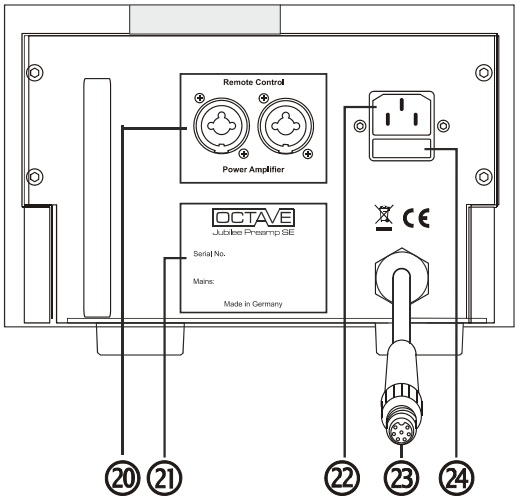
2. Before connecting your OCTAVE amplifier, switch off all other hi-fi equipment. This will avoid possible problems when you connect your other components to the preamp.

3. Connect your source components such as CD player, DAC or phono preamplifier. For instructions and connection diagrams, see chapter 4.and 5 Connect the outputs of the signal sources to the correspondingly labeled high-level inputs (XLR 1 or 2, RCA 1–4) of the JUBILEE PREAMP SE.
LEFT: Connection for the left channel
RIGHT: Connection for the right channel

4. Connect the signal cables from your JUBILEE PREAMP SE (XLR or RCA / CINCH) to the appropriate inputs on your power amplifiers.
Make sure that the power supply is switched off before you connect the power supply cable with the preamplifier
⚠ When inserting the connector, observe the anti-rotation lug and take care not over tighten the coupling ring.

5. Turn the volume control anticlockwise close to the minimum setting. Remember that high sound pressure levels can damage to your hearing as well as your loudspeakers.

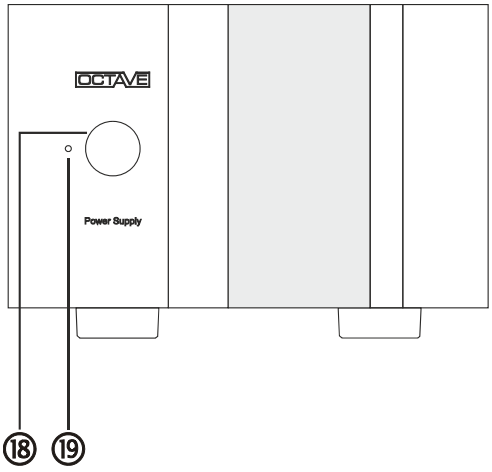
6. Connect the power supply to the wall socket. Plug the power cord [23] of the Jubilee power supply into the special socket on the preamplifier. [17]



3. GETTING STARTED

3.2. CONNECTING THE AMPLIFIER

7. Switch the power supply on (switch [18]. LED [19] on the front panel of the power supply will illuminate. Wait until the Muting LED [1] on the JUBILEE PREAMP SE goes out. The unit will be ready for use in about four minutes.



8. Now you can adjust the settings (GAIN, PHASE etc.) as described in chapter 4.

9. Switch your other components on.

10. Select a source using input selector knob [3] and adjust the volume [2] to your normal listening level.

11. Running in: Tube equipment generally takes about three months to run in and start sounding its best. Daily use is useful during this period but it is not necessary to leave the equipment on continuously, as this does not greatly reduce the running-in time.

12. Please keep this manual safe for future reference and retain the original packing for use whenever your amplifier is transported.

3.3. RUNNING IN / INFORMATION FOR USE

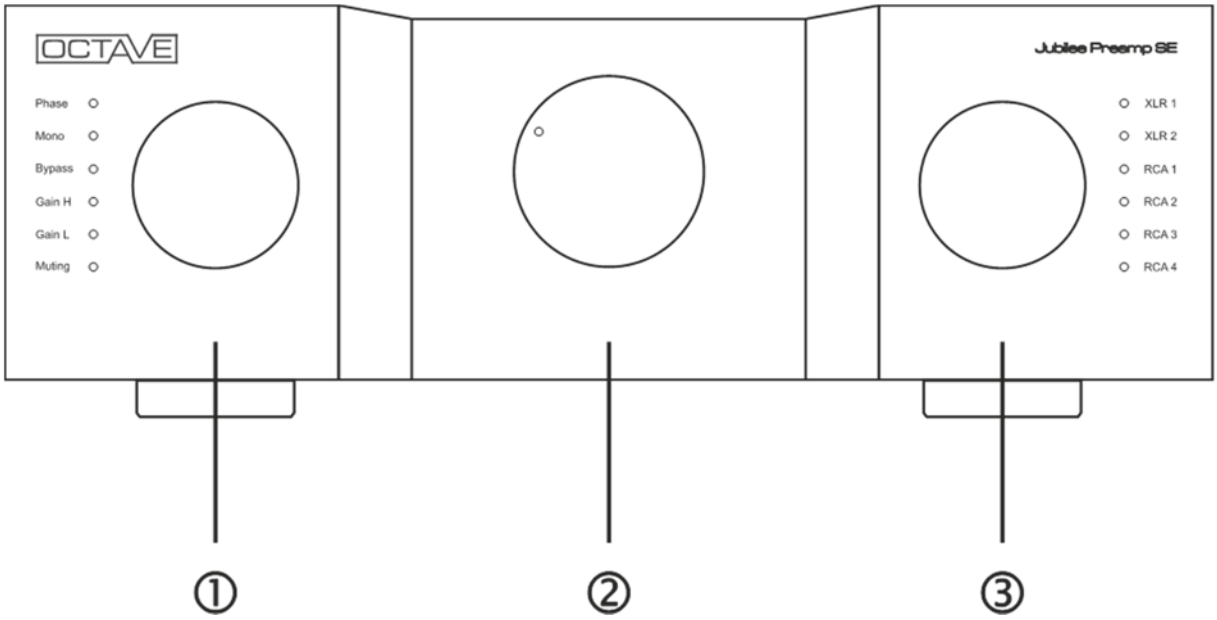
All OCTAVE equipment is subject to a 48-hour endurance run to burn in the tubes. The tubes are preselected for use in each particular model.
The sound quality of tube equipment improves throughout the initial running-in period of up to three months.

For optimal operation of the preamplifier, it is not necessary to leave the unit constantly switched on. It is sufficient to switch it off after listening and switch it back on approximately one to two hours before the next listening session.
After extended periods of inactivity of two weeks or more, it may take slightly longer for the preamplifier to reach its full sonic potential.
The unit can also be left on continuously; it is stable for continuous operation, and overheating, etc., is not possible. However, this is not necessary for optimal sound quality.

The tubes should last approximately five years under normal use.

4. OPERATION

4.1 JUBILEE PREAMP SE FRONT PANEL

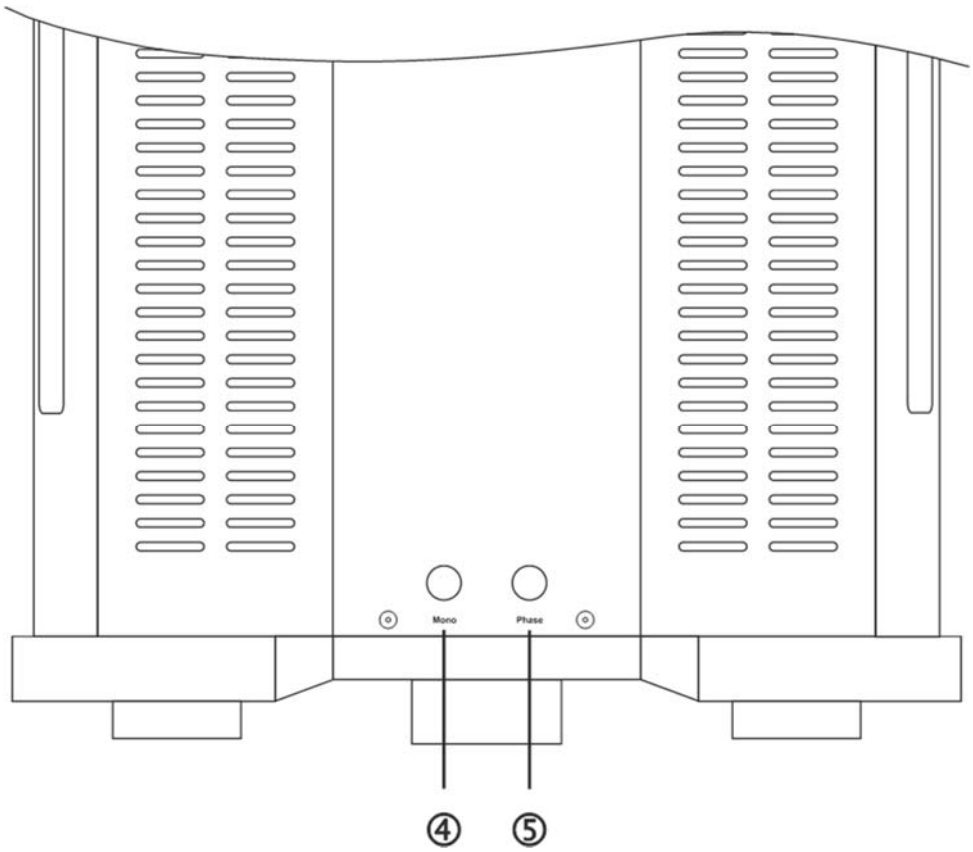


The JUBILEE PREAMP SE is equipped with a delay timer function that helps conserve tube life. The output is muted (muting LED illuminates) for four minutes during the start phase
The muting function is also activated when the mode selector knob [1] is set to „Bypass“, „Gain H“, “Gain L“ and „Muting“.

Legend	
①	**MODE SELECTOR KNOB** **Phase:** The Phase LED illuminates when the phase is inverted. This function can be activated with button [5] Phase. (On top of the cover; see next page, chapter 4.2.for description) **Mono:** The Mono LED illuminates when button [4] Mono on top of the cover is activated. (On top of the cover; see next page, chapter 4.2.for description)) **Bypass:** In this position, the playback input “Bypass” [13] bypasses the volume control. This is indicated by the Bypass LED. The gain is 1 or 0 dB. The signal is output via RCA and XLR. (See "Rear Panel” chap. 5.1.) **Gain H:** High gain, recommended for systems with speakers whose sensitivity is below 86dB **Gain L:** Low gain, recommended for systems with speakers whose sensitivity is above 86dB **Muting:** Muting the preamp outputs Activate the muting function (LED illuminates) before connecting or disconnecting source devices from the inputs. Muting prevents interference at the amplifier output, so you don't need to switch off the JUBILEE PREAMP SE.
②	**VOLUME CONTROL** An LED indicates the volume setting. Ensure the volume control is near its leftmost position (approximately the 8 o'clock position) when switching on the device. High volume levels can damage the speakers and your hearing.
③	**INPUT SELECTOR (SOURCE)** Activates the devices connected to the corresponding inputs XLR 1 + XLR 2 (2 balanced inputs), RCA 1 - RCA 4 (4 unbalanced inputs) on the rear panel (see section 5.1)..

4. OPERATION

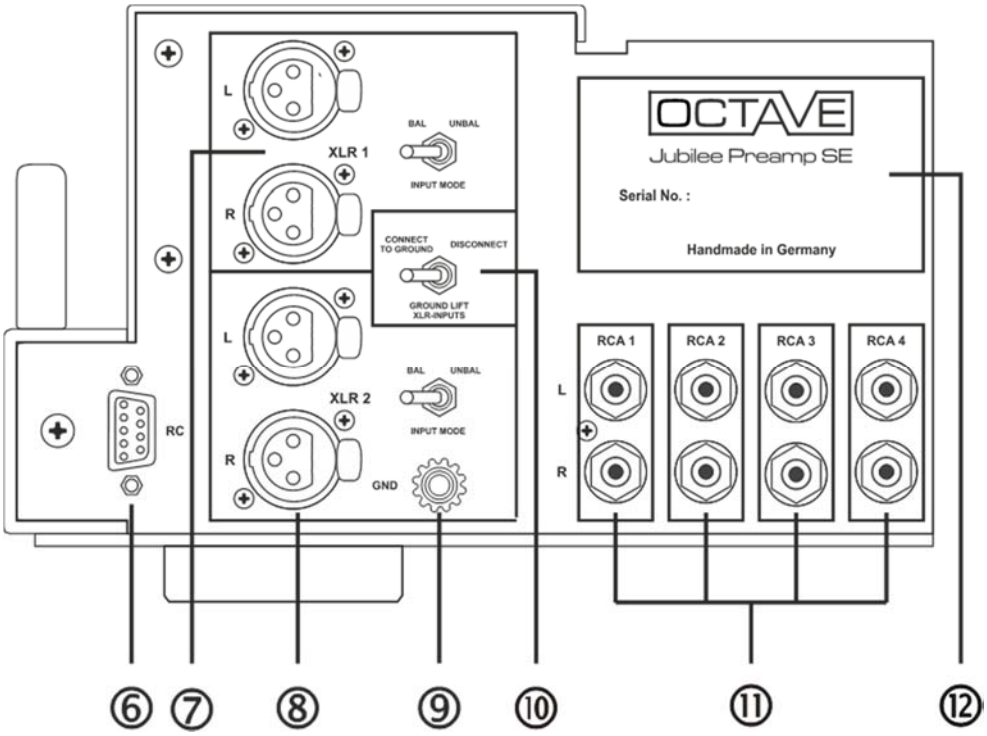
4.2 JUBILEE PREAMP SE TOP VIEW



Legend	
④	**Mono button** In the Mono position, the left and right channels are connected, meaning that both channels output the same signal. This function is helpful for checking speaker placement for correct center-sound localization.
⑤	**PHASE (REVERSE BUTTON)** Switching the phase of the output signal (0 and 180 degrees) affects both the balanced XLR and RCA outputs. LED on: Phase shift 180 degrees LED off: Phase shift 0 degrees Some older DACs display the phase of the playback signal. There are—or were—digital recordings with inverted phase. This inverted phase can be corrected by switching the phase on the Jubilee Preamp SE.

5. CONNECTIONS

5.1 REAR PANEL JUBILEE PREAMP SE

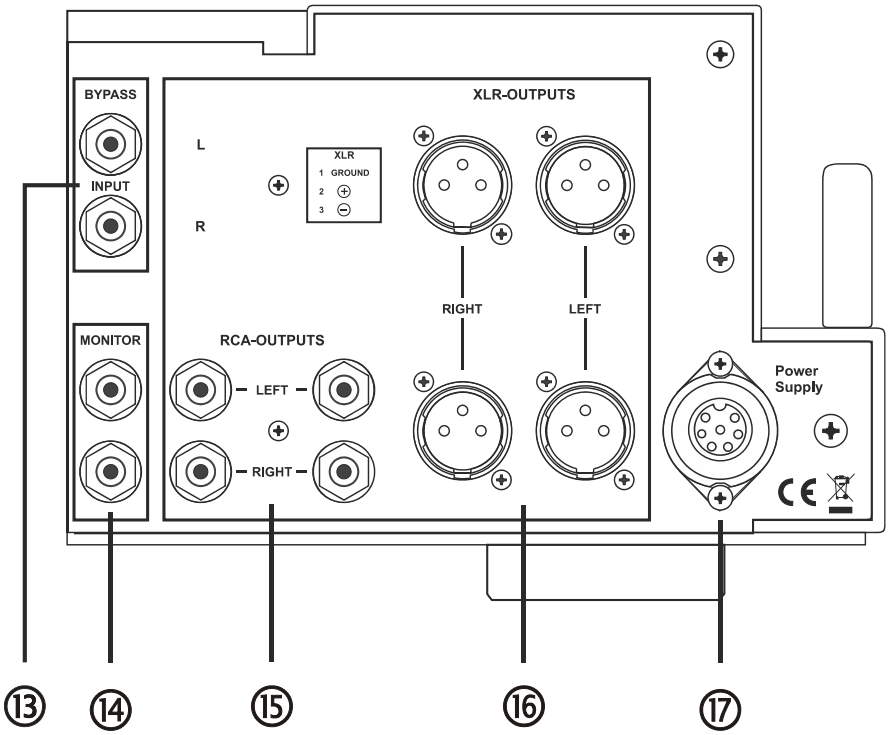


General points: The following applies to all connections: L: LEFT channel, R: RIGHT channel
XLR pin : 1: GROUND, 2: + 3: -

Legend	
⑥	**RC:** Connector for the infrared receiver. The remote control is standard
⑦ + ⑧	**XLR 1, XLR 2:** High-level inputs with XLR connectors for source devices with balanced outputs. The INPUT MODE switch allows switching between balanced (BAL) and unbalanced (UNBAL) operation. In the UNBAL position, only the positive signal (XLR PIN 2) is passed through**.**
⑨	GND: Ground connection for additional ground - connecting cable
⑩	**GROUND LIFT XLR INPUTS**: Connects the XLR ground (XLR 1 and 2) to the Jubilee preamplifier's ground. **CONNECT TO GROUND position**: The ground of XLR 1 and 2 is connected to the output ground (RCA, XLR, and GND) of the Jubilee preamplifier. (See Chap. 10 Troubleshooting: Hum on XLR Input) **DISCONNECT position**: The ground of XLR 1 or 2 is not connected to the Jubilee preamplifier's output ground. This function is made possible by the XLR input transformers. The "Disconnect" position prevents potential interference on the signal ground. "Disconnect" can be particularly advantageous with digital components that have a network connection, as this interference can worsen the jitter of the D/A converters. If the INPUT MODE switch of an XLR input is in the UNBAL position, the ground is forcibly connected, and the GROUND LIFT is then inactive for that input.
⑪	**RCA 1 – RCA 4:** Analog inputs for high-level source devices
⑫	Type plate with serial number. Please always provide the serial number of your Jubilee Preamp SE when contacting us.

5. CONNECTIONS

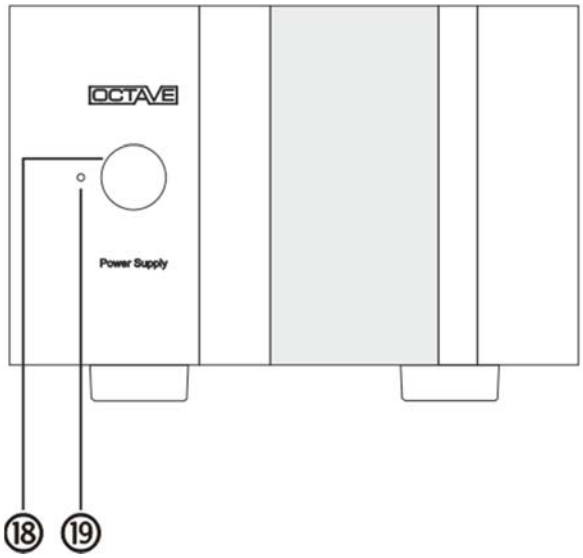
5.1 REAR PANEL JUBILEE PREAMP SE



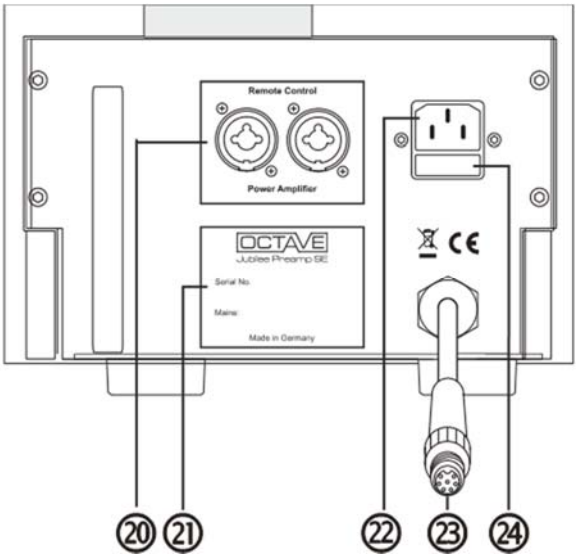
Legend	
⑬	**Bypass**: Input for home theater, multi-channel, televisions, etc. These devices typically already have a volume control. Therefore, the internal volume control is bypassed when the bypass input is activated. The preamp gain is reduced to 1 (0dB). When the bypass input is activated, the auto-muting circuit is engaged for a few seconds because the signal from the bypass source device is routed directly to the preamp input. Depending on the output of this source device, this can cause switching interference. Muting the preamp outputs of the Jubilee preamp eliminates this interference. Muting is indicated by the mute LED. When switching back to Normal – Gain H, auto-muting is not activated.
⑭	**Monitor output**: unregulated high-level output, e.g., for external headphone amplifiers with volume control.
⑮	**RCA outputs**: two pairs of RCA outputs for connecting the power amplifiers
⑯	**XLR outputs:** Two pairs of XLR outputs for connecting the power amplifiers
⑰	Special power supply connection for the external power supply unit

6. JUBILEE POWER SUPPLY

Power Supply front panel



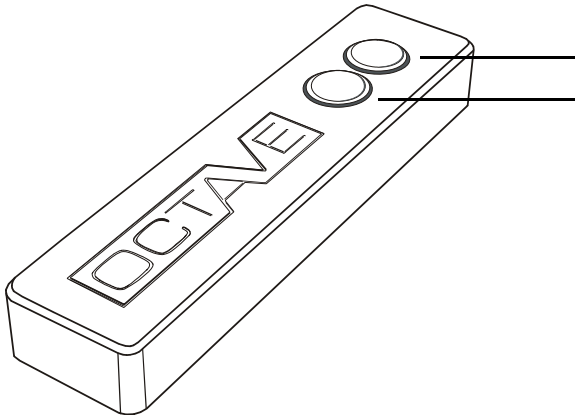
Power Supply rear panel



Legend	
⑱	**Power switch**
⑲	**Control LED**, lights up when power supply is switched on
⑳	**Remote activation connection** for Jubilee power amplifiers Connection: 6.3 mm jack plug (mono) Output: 12 V DC, 0.1 A per socket
㉑	Type plate with serial number
㉒ ⚠	**Mains connection** Before plugging the supplied power cord into the wall socket, ensure that your device is suitable for your local mains voltage. Refer to the information on the back of the JUBILEE power supply unit [21]. To ensure the safety of the installation, the power supply unit must be grounded. Use only three-core power cords with a protective earth plug (as supplied)
㉓	**Connection cable**, to the JUBILEE PREAMP SE. Please switch off the power supply before plugging in the connector. Pay attention to the anti-rotation tab and do not overtighten the locking nut.
㉔ ⚠	**Fuse holder** Caution: Fuses must only be replaced by qualified electricians. 5 x 20 mm IEC standard; Slow blow, type H: 220-240 V: 0.8 A H 110-115 V: 1.6 A H 100 V: 1.6 A H A Defective fuses must be replaced with the specified type (see the marking on the original fuse) and current rating.

7. REMOTE CONTROL FOR VOLUME

7.1. REMOTE CONTROL TRANSMITTER



Changing the batteries

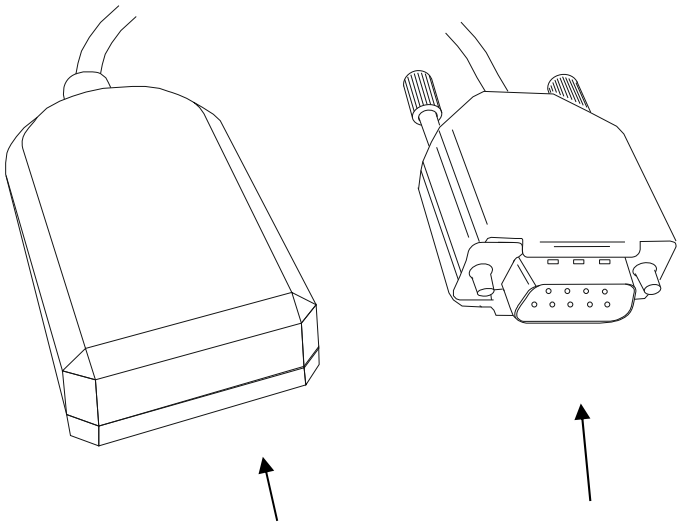
Procedure	
1	Take off the bottom plate (three screws size Phillips 1)
2	Change the batteries: 2 x Type AAA 1.5 V alkali-manganese / alkaline) Please take care not to push the buttons of the remote control while inserting the new batteries. If it still happens that the remote control does not work after changing the batteries, remove the new batteries and wait for the minimum of 30 minutes. After half an hour you can insert the new batteries again and the remote control should work. Due to the transmitter's low power consumption, the batteries can last for several years. With such a long operating time, it's possible for the batteries to leak. Therefore, the batteries should be checked annually for leaks. This is usually indicated by corroded contact springs. The contact springs must then be cleaned and new batteries inserted.
3	Mount the bottom plate again, tighten the screws not too hard.
	Please don't trash the old batteries. Batteries must be disposed of as special waste. Stores that sell batteries should provide containers for the collection of used batteries

Specification	
Weight	0.256 kg
Dimensions	15.6 x 3.5 x 2.3 cm (L x W x H)

You cannot control the volume with the remote control in case of the option stepped attenuator

7. REMOTE CONTROL FOR VOLUME

7.2. REMOTE CONTROL RECEIVER



Remote Control Receiver

Connector to the rear panel

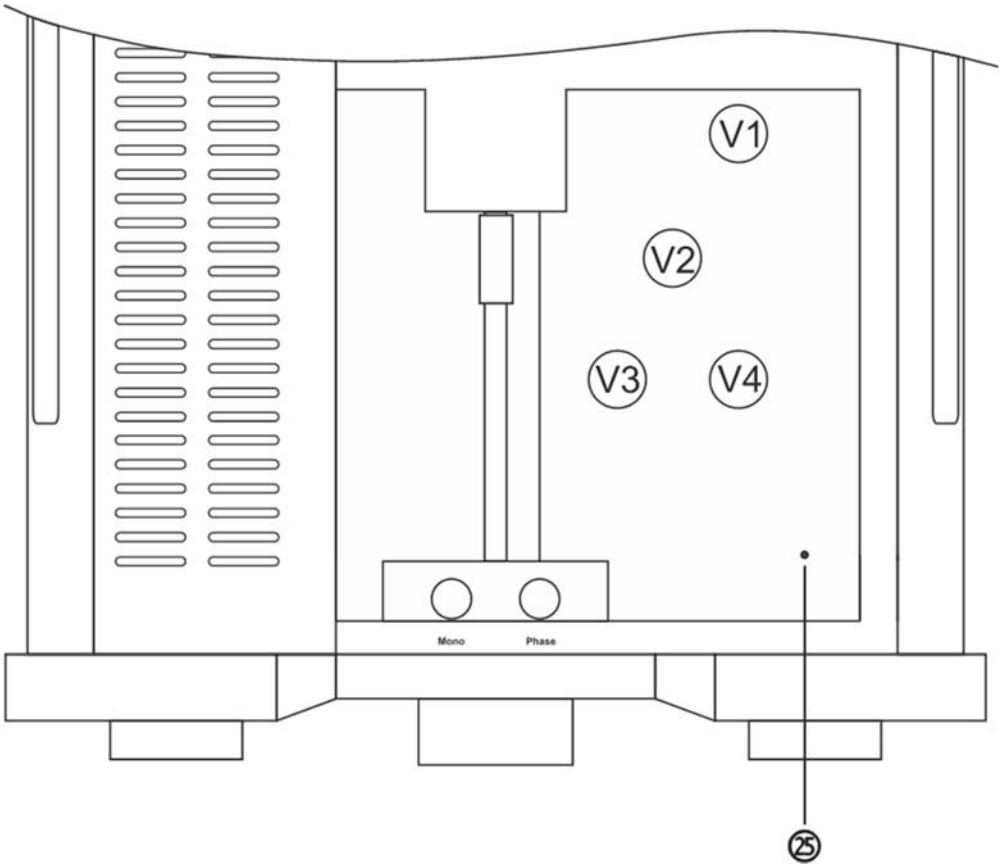
Because it would not be very aesthetic to drill a hole in the JUBILEE PREAMP SE front panel, we decided to use a solution with an external receiver

Procedure	
1	Connect the receiver with the plug on the rear panel
2	Put the receiver wherever you want The receiver must be in optical reachability

Specification	
Weight	0.08 kg
Dimensions	5.5 x 3.2 x 2.0 cm (L x W x H)
Cable length:	110 cm

8. TUBES

8.1 TUBE LAYOUT



Tube replacement should be done by a technician. Before opening the cover it is mandatory to remove the power cord from the mains power inlet.

Tubes	Name / Explanation
V1, V2, V3, V4	**12 AU 7 Tung Sol** (ECC 82, ECC802S, 5814, 6189W) Sockets V3 and V4 should be fitted with identical tube types from the same manufacturer. Sockets V1 and V2 should be fitted with tubes whose systems are selected for less than 5% deviation in gain.
25	**Red LED for automatic discharge** **LED on:** After switching off, the LED illuminates until the power supply capacitors are discharged **LED off:** The power supply capacitors are discharged. When the device is disconnected from the mains, no dangerous voltages remain inside.

8. TUBES

8.2 GENERAL INFORMATION

Tube life
Thanks to the protection circuits and soft-start electronics, you can expect your output tubes to last for an average of five to ten years.

Differences in tube service life
Faulty tubes can be replaced individually. It is not necessary to replace an entire set.

Running in
New tubes can require a relatively long time (up to 300 hours) to achieve their optimum sound quality.

Faulty tubes
Manufacturing faults in tubes may only become evident after about 100 hours of use. You should therefore be wary of installing untested tubes. However, faulty tubes or tubes of the incorrect type will normally not damage the amplifier. Nevertheless, they may cause loud crackling noises in your loudspeakers

8.3 REPLACING TUBES

Procedure	
1	For safety reasons, only qualified personnel should open the amplifier and replace the tubes
2	⚠ Switch off the preamplifier, unplug the power cord from the wall socket and allow the unit **15 minutes to cool down**
3	The Jubilee's automatic discharge system will discharge the power supply capacitors. The red LED [25] will be lit during this time (see Tube Layout, chapter 8.1). To avoid an electric shock, wait until this LED has extinguished before opening the case.
4	Remove the acrylic cover and the right stainless steel lid above the input selector knob [3].
5	**Take out the old tubes** Carefully remove the tubes from their sockets, taking care not to exert sideward pressure on the sockets
6	**Fit new tubes** Please only use original OCTAVE replacement tubes. These have been tested and selected for use in our amplifiers. Please ensure that the tube pins are all perfectly straight before inserting your new tubes. Straighten any bent pins very carefully by hand if necessary. No adjustments are necessary to your amplifier after fitting new tubes.

ⓘ **Cleaning tips**
Cleaning agents and contact cleaners **<u>are not recommended</u>** for tube sockets. Clean dirty sockets with compressed air and clean dirty tube pins carefully using a wire brush. A toothbrush dipped in isopropyl alcohol also works well.

9. OPTIONS

9.1 OPTION STEPPED ATTENUATOR FOR VOLUME

The volume control is an important component of a preamplifier. The demands placed on the controls are very high. The control range must encompass at least the range of 1:3000 (or 1:0.00033) to ensure fine adjustment appropriate for human hearing.

At the same time, the channel deviation within this range must not exceed 1 dB. The transfer resistance should remain constant during and after adjustment to prevent control noises. Rotary controls with a resistance track sensed by a slide meet these requirements to a large extent with our strict selection, but spring-guided sensing of the resistance track can result in undesired resonance effects that negatively affect the transfer resistance and impair the signal in the micro range. As a result of this design, the frequency bandwidth, i.e. the speed, may also be limited, depending on the control setting.

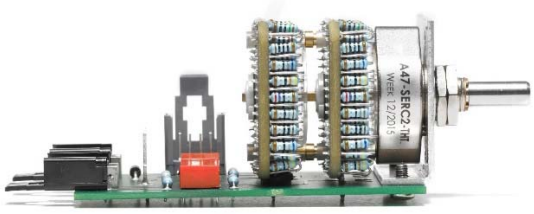
The control concept can only be improved with a stepped attenuator. In this complex process, the resistance track is reproduced by a series circuit consisting of individual resistors. The stepped attenuator now senses the connecting points of the resistor ladder.

The advantages of this solution are obvious: thanks to the low-tolerance fixed resistors, the channel tolerance across the entire control range remains under 0.1 dB. The hard gold plated contacts on the switch have an extremely low transfer resistance and thus do not generate micro-fluctuations in the signal level caused by mechanical resonances.

The switch has 47 settings. This uncommonly high number of settings allows for finely incremented, reproducible volume adjustment.

Equipped with this unique switching layout, the OCTAVE stepped attenuator functions as an ideal control. The sound characteristics are constant across the entire control range, while the center position also remains stable across the entire range thanks to the negligible channel tolerance. The sound pattern gains depth and the finest subtleties are audible in the layers of sound

However, as a result of the mechanical design of the stepped attenuator, the switch positions cannot be controlled using the remote control



10. TROUBLESHOOTING

Amplifier will not switch on

POSSIBLE CAUSES	The Jubilee power supply power cord is loose or not connected correctly
REMEDY	Connect power cord and check the wall socket and power connections
POSSIBLE CAUSES	No or faulty power connection between preamp and power supply
REMEDY	Check the connection of the power cord to the wall socket and the power cord between the Jubilee power supply and preamp
POSSIBLE CAUSES	Blown fuse in the Jubilee power supply
REMEDY	Have a qualified service engineer check your equipment and replace the fuses (identical rating and type!)

Preamp turns on, but no sound

POSSIBLE CAUSES	Amplifier has only recently been switched on or the gain switch has been operated
REMEDY	Wait until the device is ready for operation (approx. 4 minutes): Muting LED must go out.
POSSIBLE CAUSES	Input selector knob or mode selector knob not set correctly
REMEDY	Check the setting of the Input Selector [3] and Mode Selector knob [1]
POSSIBLE CAUSES	Power amplifiers or source equipment not switched on or not in play mode
REMEDY	Switch on power amplifiers. Switch on source equipment and play some music
POSSIBLE CAUSES	Problem with the installation: faulty cables between source equipment and/or power amplifier and the JUBILEE PREAMP SE
REMEDY	Check cables and connections and correct faults

Humming and crackling

POSSIBLE CAUSES	The connecting phono plugs are not making a proper connection to ground
REMEDY	Check your interconnect cables and make sure that phono plugs are a tight fit. If the plugs appear loose, you can try bending the ground contacts (on the outside of the plug) in slightly.
POSSIBLE CAUSES	Inadequate contact between the phono plug's signal pin and the phono socket
REMEDY	Try another interconnect or, if necessary, have the RCA / CINCH phono sockets replaced by the OCTAVE service department.
POSSIBLE CAUSES	Hum on XLR input
REMEDY	**GROUND LIFT XLR INPUTS** (See Connections in chap. 5.1.) in DISCONNECT position. Lifting the ground helps to prevent unwanted noise in balanced operation.

10. TROUBLESHOOTING

Volume imbalance between the left and right channels

POSSIBLE CAUSES	Damaged cables and poorly fitting phono plugs can create resistance in the signal path, which can cause one channel to sound louder than the other.
REMEDY	Change the cable clean plugs and sockets with isopropyl alcohol. Warning: Do not use contact cleaning sprays.

Increased noise on one channel

POSSIBLE CAUSES	Noise that varies in level is a sign of a faulty or worn driver tube
REMEDY	You must replace the tube that is causing the problem. Return the amplifier to us if necessary. We will also gladly ship replacement tubes. You will find important instructions on replacing tubes in chap. 8.

11. SPECIFICATION

11.1. TECHNICAL DATA JUBILEE PREAMP SE

In- and Outputs	
Inputs	4 x RCA, 2 x XLR 1 x Home Theatre Bypass (RCA)
Outputs	2 x RCA, 2 x XLR, 1 x Monitor (RCA)
Specification	
Frequency response (RCA / CINCH)	5 Hz – 200 kHz 0 / -2 dB
Total harmonic distortion	< 0.1% @ 3 V / 7.5 kOhm
Signal-to-noise ratio (weighted)	100 dB (Gain High) / 106 dB (Gain Low) / Ref. 3 V RMS
Maximum output voltage	8 V
Gain low/high RCA / CINCH	10 dB / 16 dB
Gain low/high XLR	16 dB / 22 dB
Channel separation	-50 dB 1 kHz
Crosstalk rejection between inputs	-100 dB 1 kHz
Input impedance RCA / CINCH	34 kOhm
Input impedance XLR	80 kOhm
Output impedance	33 Ohms (RCA / CINCH) / 2 x 33 Ohms XLR
Channel tracking of volume control	0.5 dB (-70 dB) < 0.1dB with option stepped attenuator
General data	
Power consumption	60 W
Fuses	5 x 20 mm IEC standard Slow blow, type H 220-240 V: T 0.8 A H / 110-120 V: T 1.6 A H 100 V: T 1.6 A H
Weight, preamplifier / power supply	17.2 kg / 11.5 kg
Dimensions preamplifier	44.5 x 15.2 x 48.0 cm (W x H x D)
Dimensions power supply	22.0 x 15.2 x 48.0 cm (W x H x D)
Supplied accessories	Power cable, remote control

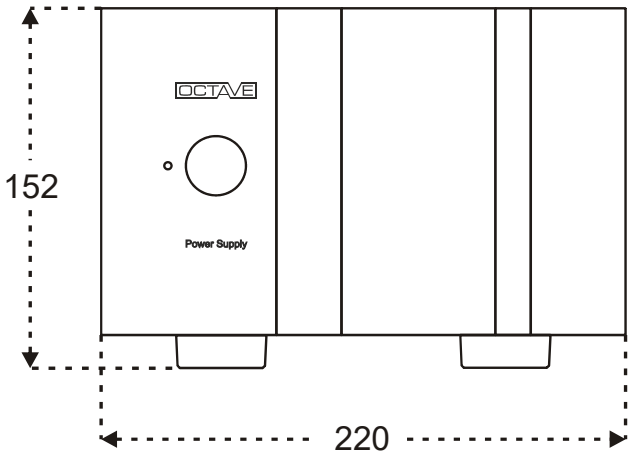
11.2. TECHNICAL FEATURES

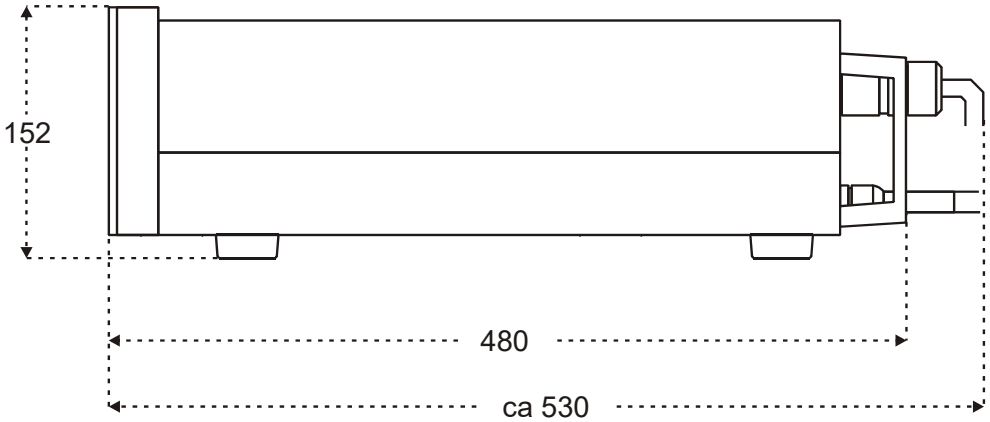
- External power supply with vacuum-encapsulated, low-noise power transformer.
- Power supply with a total of 6 voltages, extremely low-noise and precisely regulated.
- This results in a wide operating voltage range of, for example, 190–250 V for 230 V devices.
- XLR input with input transformers for optimal symmetry and low noise.
- Innovative circuit board material from Japan, optimized for high-voltage applications.
- Newly developed, optimized three-layer feet specifically for the preamplifier.
- 47-position rotary switch for precise symmetry and maximum microdynamics thanks to extremely low contact resistance
- Dual Amp technology with a total of four tubes in the amplifier stage and a quad-solid-state power output stage
- This results in extremely low-impedance, wideband, and high-current RCA and XLR outputs.

11. SPECIFICATION

11.3 DIMENSIONS

Dimensions Jubilee Power Supply in mm

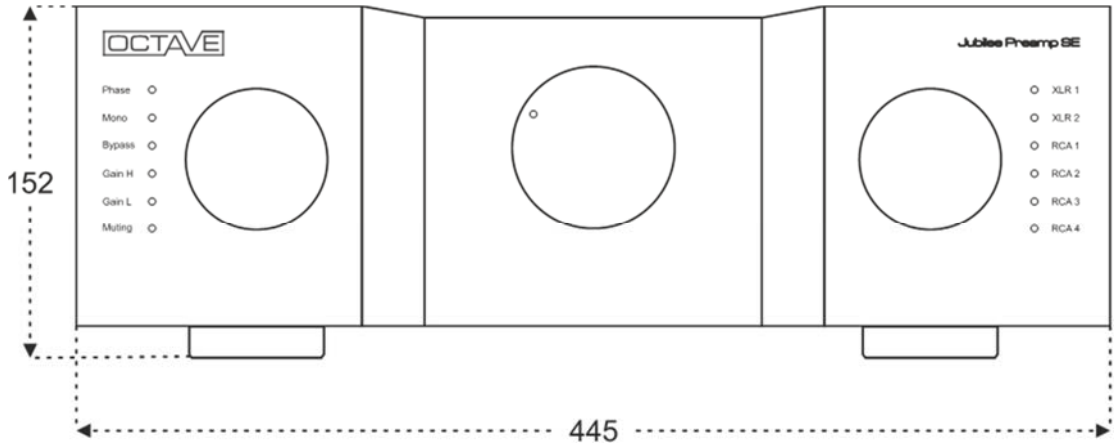


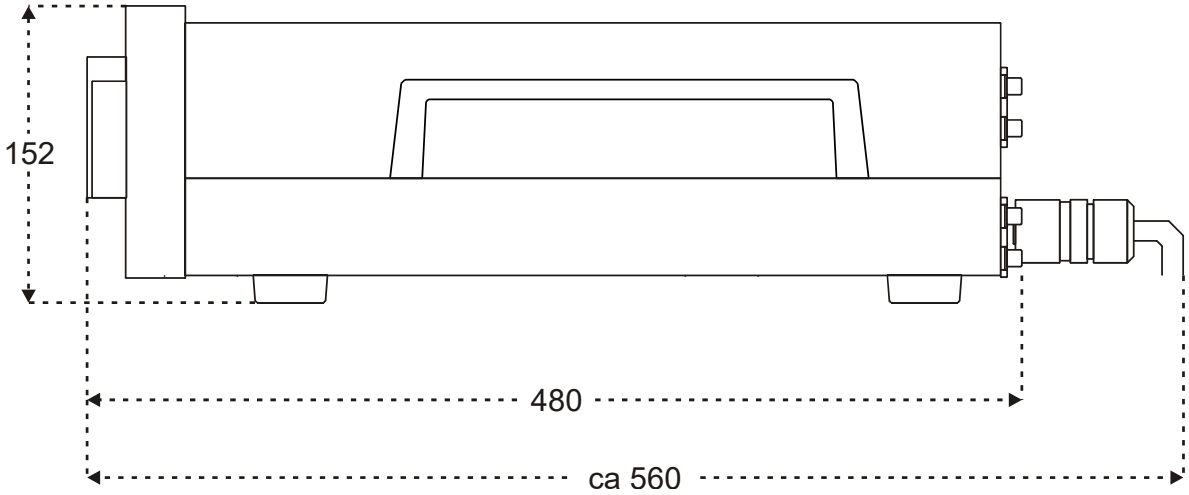


11. SPECIFICATION

11.3 DIMENSIONS

Dimensions JUBILEE PREAMP SE in mm

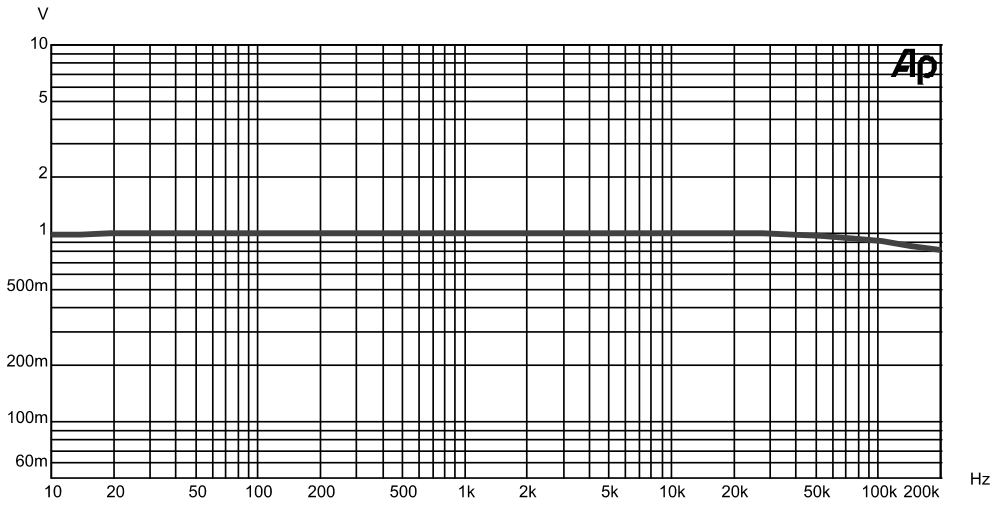




11. SPECIFICATION

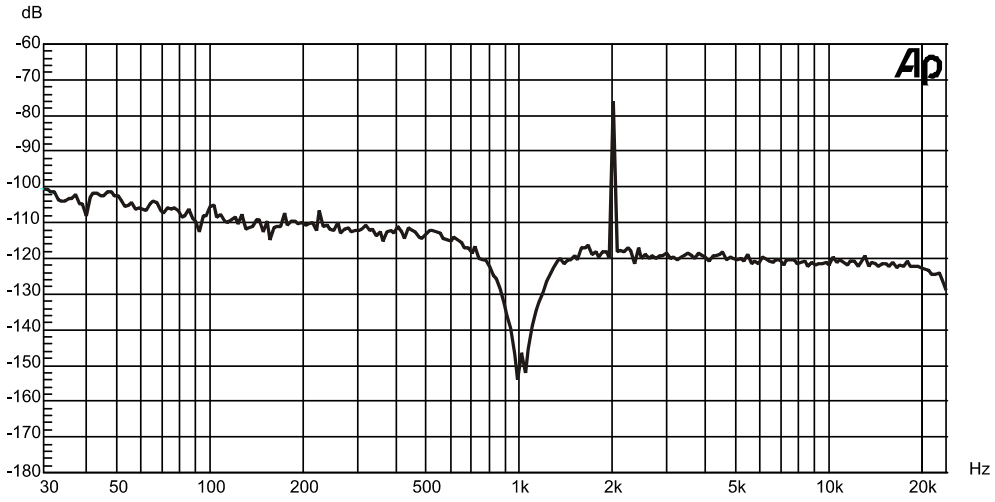
11.4 DIAGRAMS

Frequency response



Extremely linear frequency response. No fall in level at lowest bass frequencies.

Distortion spectrum



Distortion spectrum at 1 kHz: only second harmonic k2 is discernible; no residual hum at 50/100Hz.

02/26

We reserve the right to alter and improve the specifications in pursuit of better. OCTAVE logo is a registered trade mark of Andreas Hofmann. Copyright by Andreas Hofmann

OCTAVE AUDIO
ANDREAS HOFMANN
REUTAECKERSTR. 5
DE-76307 KARLSBAD

T. +49 (0) 7248 3278
F. +49 (0) 7248 3279
INFO@OCTAVE.DE
WWW.OCTAVE.DE